

## Refine Search

### Search Results -

Terms	Documents
L19 and (bonding or damping or (vibration near absorb\$2) or vibration)	5

**Database:**

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

**Search:**

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### Search History

DATE: Sunday, October 29, 2006    [Purge Queries](#)    [Printable Copy](#)    [Create Case](#)

<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L20</u>	L19 and (bonding or damping or (vibration near absorb\$2) or vibration)	5	<u>L20</u>
<u>L19</u>	L18 and EPDM	26	<u>L19</u>
<u>L18</u>	(solid near polybutylene) or (semi-solid near polybutylene) or (high near molecular near weight near polybutylene)	118	<u>L18</u>
<u>L17</u>	L13 and (high near molecular near weight near polybutene)	1	<u>L17</u>
<u>L16</u>	L13 and (high near molecular near weight near polybutylene)	17	<u>L16</u>
<u>L15</u>	L13 and (semi-solid near polybutylene)	0	<u>L15</u>
<u>L14</u>	L13 and (solid near polybutylene)	0	<u>L14</u>
<u>L13</u>	L4 and EPDM	1719	<u>L13</u>
<u>L12</u>	4601935.pn.	2	<u>L12</u>
<u>L11</u>	L10 and L9	49	<u>L11</u>
<u>L10</u>	L8 and 524/\$.ccls.	153	<u>L10</u>
<u>L9</u>	L8 and 525/\$.ccls.	202	<u>L9</u>

<u>L8</u>	L7 and (bonding or damping or (vibration near absorb\$2) or vibration)	728	<u>L8</u>
<u>L7</u>	L6 and cur\$3	1507	<u>L7</u>
<u>L6</u>	L5 and (isobutylene or butene)	2593	<u>L6</u>
<u>L5</u>	L4 and ((ethylene-alpha-olefin) or (ethylene near alpha-olefin near rubber) or (EPDM) or EPM or (ethylene near propylene near copolymer) or (ethylene near butene near copolymer) or (ethylene near propylene near elastomer))	3789	<u>L5</u>
<u>L4</u>	L3 and ((high near molecular near weight) or (very near viscous) or (high near viscosity) or (high near viscosity near molecular near weight))	12174	<u>L4</u>
<u>L3</u>	L2 and (solid or (semi-solid) or (solid near rubber))	36114	<u>L3</u>
<u>L2</u>	polybutylene or polyisobutylene or polybutene or (polyisobutylene near isoprene)	81497	<u>L2</u>
<u>L1</u>	7078104.pn.	2	<u>L1</u>

END OF SEARCH HISTORY

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### Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20060230476 A1

L20: Entry 1 of 5

File: PGPB

Oct 12, 2006

PGPUB-DOCUMENT-NUMBER: 20060230476

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060230476 A1

TITLE: Polymeric/ceramic composite materials for use in medical devices

PUBLICATION-DATE: October 12, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atanasoska; Liliana	Edina	MN	US
Schewe; Scott	Eden Prairie	MN	US
Warner; Robert	Woodbury	MN	US

US-CL-CURRENT: 604/93.01, 977/933

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Da
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☐ 2. Document ID: US 20060171980 A1

L20: Entry 2 of 5

File: PGPB

Aug 3, 2006

PGPUB-DOCUMENT-NUMBER: 20060171980

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060171980 A1

TITLE: Implantable or insertable medical devices having optimal surface energy

PUBLICATION-DATE: August 3, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus; Michael N.	Worcester	MA	US
Valint; Paul	Pittsford	NY	US
Ranade; Shrirang V.	Arlington	MA	US

US-CL-CURRENT: 424/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 3. Document ID: US 20060129215 A1

L20: Entry 3 of 5

File: PGPB

Jun 15, 2006

PGPUB-DOCUMENT-NUMBER: 20060129215

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060129215 A1

TITLE: Medical devices having nanostructured regions for controlled tissue biocompatibility and drug delivery

PUBLICATION-DATE: June 15, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus; Michael N.	Worcester	MA	US
Xu; Yixin	Newton	MA	US
Ranade; Shrirang V.	Arlington	MA	US

US-CL-CURRENT: 607/115

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 4. Document ID: US 20060127442 A1

L20: Entry 4 of 5

File: PGPB

Jun 15, 2006

PGPUB-DOCUMENT-NUMBER: 20060127442

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060127442 A1

TITLE: Use of supercritical fluids to incorporate biologically active agents into nanoporous medical articles

PUBLICATION-DATE: June 15, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus; Michael N.	Worcester	MA	US

US-CL-CURRENT: 424/423; 427/2.26, 623/1.11, 977/931

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 5. Document ID: US 20050181015 A1

L20: Entry 5 of 5

File: PGPB

Aug 18, 2005

PGPUB-DOCUMENT-NUMBER: 20050181015  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050181015 A1

TITLE: Layered silicate nanoparticles for controlled delivery of therapeutic agents from medical articles

PUBLICATION-DATE: August 18, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Zhong, Sheng-Ping (Samuel)	Shrewsbury	MA	US

US-CL-CURRENT: 424/426

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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Terms	Documents
L19 and (bonding or damping or (vibration near absorb\$2) or vibration)	5

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Search Results - Record(s) 1 through 26 of 26 returned.

☐ 1. Document ID: US 20060230476 A1

L19: Entry 1 of 26

File: PGPB

Oct 12, 2006

PGPUB-DOCUMENT-NUMBER: 20060230476

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060230476 A1

TITLE: Polymeric/ceramic composite materials for use in medical devices

PUBLICATION-DATE: October 12, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atanasoska; Liliana	Edina	MN	US
Schewe; Scott	Eden Prairie	MN	US
Warner; Robert	Woodbury	MN	US

US-CL-CURRENT: 604/93.01, 977/933

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. Des
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☐ 2. Document ID: US 20060204545 A1

L19: Entry 2 of 26

File: PGPB

Sep 14, 2006

PGPUB-DOCUMENT-NUMBER: 20060204545

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060204545 A1

TITLE: Drug release regions for medical devices, which include polycyclic-structure-containing polymers

PUBLICATION-DATE: September 14, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ranade; Shrirang V.	Arlington	MA	US
Helmus; Michael N.	Worcester	MA	US
Richard; Robert E.	Wrentham	MA	US

US-CL-CURRENT: 424/425

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 3. Document ID: US 20060171981 A1

L19: Entry 3 of 26

File: PGPB

Aug 3, 2006

PGPUB-DOCUMENT-NUMBER: 20060171981

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060171981 A1

TITLE: Medical devices having polymeric regions with copolymers containing hydrocarbon and heteroatom-containing monomeric species

PUBLICATION-DATE: August 3, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Richard; Robert E.	Wrentham	MA	US
Schwarz; Marlene C.	Auburndale	MA	US
Faust; Rudolf	Lexington	MA	US

US-CL-CURRENT: 424/422; 623/1.11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 4. Document ID: US 20060171980 A1

L19: Entry 4 of 26

File: PGPB

Aug 3, 2006

PGPUB-DOCUMENT-NUMBER: 20060171980

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060171980 A1

TITLE: Implantable or insertable medical devices having optimal surface energy

PUBLICATION-DATE: August 3, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus; Michael N.	Worcester	MA	US
Valint; Paul	Pittsford	NY	US
Ranade; Shrirang V.	Arlington	MA	US

US-CL-CURRENT: 424/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 5. Document ID: US 20060165754 A1

L19: Entry 5 of 26

File: PGPB

Jul 27, 2006

PGPUB-DOCUMENT-NUMBER: 20060165754  
PGPUB-FILING-TYPE:  
DOCUMENT-IDENTIFIER: US 20060165754 A1

TITLE: Medical devices containing crazed polymeric release regions for drug delivery

PUBLICATION-DATE: July 27, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ranade; Shrirang V.	Arlington	MA	US

US-CL-CURRENT: 424/423

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 6. Document ID: US 20060129215 A1

L19: Entry 6 of 26

File: PGPB

Jun 15, 2006

PGPUB-DOCUMENT-NUMBER: 20060129215  
PGPUB-FILING-TYPE:  
DOCUMENT-IDENTIFIER: US 20060129215 A1

TITLE: Medical devices having nanostructured regions for controlled tissue biocompatibility and drug delivery

PUBLICATION-DATE: June 15, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus; Michael N.	Worcester	MA	US
Xu; Yixin	Newton	MA	US
Ranade; Shrirang V.	Arlington	MA	US

US-CL-CURRENT: 607/115

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 7. Document ID: US 20060127443 A1

L19: Entry 7 of 26

File: PGPB

Jun 15, 2006

PGPUB-DOCUMENT-NUMBER: 20060127443  
PGPUB-FILING-TYPE:  
DOCUMENT-IDENTIFIER: US 20060127443 A1



TITLE: Medical devices having vapor deposited nanoporous coatings for controlled therapeutic agent delivery

PUBLICATION-DATE: June 15, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus; Michael N.	Worcester	MA	US

US-CL-CURRENT: 424/423; 623/1.11, 977/931

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 8. Document ID: US 20060127442 A1

L19: Entry 8 of 26

File: PGPB

Jun 15, 2006

PGPUB-DOCUMENT-NUMBER: 20060127442

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060127442 A1

TITLE: Use of supercritical fluids to incorporate biologically active agents into nanoporous medical articles

PUBLICATION-DATE: June 15, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus; Michael N.	Worcester	MA	US

US-CL-CURRENT: 424/423; 427/2.26, 623/1.11, 977/931

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 9. Document ID: US 20060121076 A1

L19: Entry 9 of 26

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060121076

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060121076 A1

TITLE: Orienting polymer domains for controlled drug delivery

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ranade; Shrirang V.	Arlington	MA	US
Richard; Robert E.	Wrentham	MA	US

Dao; Kinh-Luan (Lenny) D.	Randolph	MA	US
Gido; Samuel P.	Hadley	MA	US
Isaacs-Sodeye; Akinbode Idowu	South Hadley	MA	US

US-CL-CURRENT: 424/422; 427/2.26, 604/500

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 10. Document ID: US 20060034931 A1

L19: Entry 10 of 26

File: PGPB

Feb 16, 2006

PGPUB-DOCUMENT-NUMBER: 20060034931

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060034931 A1

TITLE: Solvent-assisted loading of therapeutic agents

PUBLICATION-DATE: February 16, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hansen; James G.	Coon Rapids	MN	US

US-CL-CURRENT: 424/486

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 11. Document ID: US 20060013867 A1

L19: Entry 11 of 26

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060013867

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060013867 A1

TITLE: Medical devices and materials containing isobutylene copolymer

PUBLICATION-DATE: January 19, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Richard; Robert E.	Wrentham	MA	US
Faust; Rudolf	Lexington	MA	US

US-CL-CURRENT: 424/449

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw De
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☐ 12. Document ID: US 20060013854 A1

L19: Entry 12 of 26

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060013854  
PGPUB-FILING-TYPE:  
DOCUMENT-IDENTIFIER: US 20060013854 A1

TITLE: Medical devices containing copolymers with graft copolymer endblocks for drug delivery

PUBLICATION-DATE: January 19, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Strickler; Frederick H.	Natick	MA	US
Richard; Robert E.	Wrentham	MA	US

US-CL-CURRENT: 424/423

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 13. Document ID: US 20060013849 A1

L19: Entry 13 of 26

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060013849  
PGPUB-FILING-TYPE:  
DOCUMENT-IDENTIFIER: US 20060013849 A1

TITLE: Medical devices containing radiation resistant block copolymer

PUBLICATION-DATE: January 19, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Strickler; Frederick H.	Natick	MA	US
Richard; Robert E.	Wrentham	MA	US

US-CL-CURRENT: 424/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 14. Document ID: US 20050240098 A1

L19: Entry 14 of 26

File: PGPB

Oct 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050240098  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050240098 A1

TITLE: Magnetic resonance imaging of a medical device and proximate body tissue

PUBLICATION-DATE: October 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Zhong, Sheng-Ping	Shrewsbury	MA	US
Helmus, Michael N.	Worcester	MA	US
Smith, Scott R.	Chaska	MN	US
Hammer, Bruce E.	Minnetonka	MN	US

US-CL-CURRENT: 600/410; 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 15. Document ID: US 20050239508 A1

L19: Entry 15 of 26

File: PGPB

Oct 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050239508

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050239508 A1

TITLE: Medical articles having therapeutic-agent-containing regions formed from coalesced polymer particles

PUBLICATION-DATE: October 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schwarz, Marlene C.	Auburndale	MA	US
Richard, Robert E.	Wrentham	MA	US
Zhong, Sheng-Ping	Shrewsbury	MA	US

US-CL-CURRENT: 455/562.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 16. Document ID: US 20050238684 A1

L19: Entry 16 of 26

File: PGPB

Oct 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050238684

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050238684 A1

TITLE: Implantable or insertable medical articles having covalently modified, biocompatible surfaces

PUBLICATION-DATE: October 27, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus, Michael N.	Worcester	MA	US
Ranade, Shrirang V.	Arlington	MA	US

US-CL-CURRENT: 424/423

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 17. Document ID: US 20050234388 A1

L19: Entry 17 of 26

File: PGPB

Oct 20, 2005

PGPUB-DOCUMENT-NUMBER: 20050234388

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050234388 A1

TITLE: Agent eluting stent and catheter

PUBLICATION-DATE: October 20, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Amos, Ray	Spencer	IN	US
Deal, Travis	Freedom	IN	US
Scheurmann, James F.	Natick	MA	US

US-CL-CURRENT: 604/8; 604/99.03, 623/23.67, 623/23.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 18. Document ID: US 20050228433 A1

L19: Entry 18 of 26

File: PGPB

Oct 13, 2005

PGPUB-DOCUMENT-NUMBER: 20050228433

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050228433 A1

TITLE: In situ implant and method of forming same

PUBLICATION-DATE: October 13, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bucay-Couto, Weenna	Burlington	MA	US
Liu, Cliff	Randolph	MA	US

US-CL-CURRENT: 606/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMJC	Draw De
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☐ 19. Document ID: US 20050220853 A1

L19: Entry 19 of 26

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050220853

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050220853 A1

TITLE: Controlled delivery of therapeutic agents from medical articles

PUBLICATION-DATE: October 6, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dao, Kinh-Luan (Lenny)	Randolph	MA	US
Panos, Anastasia	Worcester	MA	US
Chin, Yem	Burlington	MA	US
Zhong, Sheng-Ping (Samuel)	Shrewsbury	MA	US

US-CL-CURRENT: 424/449

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMJC	Draw De
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☐ 20. Document ID: US 20050187146 A1

L19: Entry 20 of 26

File: PGPB

Aug 25, 2005

PGPUB-DOCUMENT-NUMBER: 20050187146

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050187146 A1

TITLE: Biomaterials for enhanced healing

PUBLICATION-DATE: August 25, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus, Michael N.	Worcester	MA	US
Richard, Robert	Wrentham	MA	US
Dixon, Melissa	Milford	MA	US

US-CL-CURRENT: 514/8; 424/78.27, 525/54.2, 530/395

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMJC	Draw De
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☐ 21. Document ID: US 20050181015 A1

L19: Entry 21 of 26

File: PGPB

Aug 18, 2005

PGPUB-DOCUMENT-NUMBER: 20050181015  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050181015 A1

TITLE: Layered silicate nanoparticles for controlled delivery of therapeutic agents from medical articles

PUBLICATION-DATE: August 18, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Zhong, Sheng-Ping (Samuel)	Shrewsbury	MA	US

US-CL-CURRENT: 424/426

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 22. Document ID: US 20050181014 A1

L19: Entry 22 of 26

File: PGPB

Aug 18, 2005

PGPUB-DOCUMENT-NUMBER: 20050181014  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050181014 A1

TITLE: Polymer-filler composites for controlled delivery of therapeutic agents from medical articles

PUBLICATION-DATE: August 18, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Richard, Robert E.	Wrentham	MA	US

US-CL-CURRENT: 424/426

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 23. Document ID: US 20050064011 A1

L19: Entry 23 of 26

File: PGPB

Mar 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050064011  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050064011 A1

TITLE: Implantable or insertable medical devices containing phenolic compound for inhibition of restenosis

PUBLICATION-DATE: March 24, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Song, Young-Ho	Framingham	MA	US
Carter, Andrew J.	Portage	MI	US

US-CL-CURRENT: 424/423

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw De
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☐ 24. Document ID: US 5648411 A

L19: Entry 24 of 26

File: USPT

Jul 15, 1997

US-PAT-NO: 5648411

DOCUMENT-IDENTIFIER: US 5648411 A

TITLE: Thermoplastic blend compositions containing polyester resins and an organosulfate salt

DATE-ISSUED: July 15, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gallucci; Robert Russell	Mt. Vernon	IN		
Hans; Paul Joseph	Mt. Vernon	IN		

US-CL-CURRENT: 524/156

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw De
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☐ 25. Document ID: US 5589530 A

L19: Entry 25 of 26

File: USPT

Dec 31, 1996

US-PAT-NO: 5589530

DOCUMENT-IDENTIFIER: US 5589530 A

TITLE: Stabilization of low molecular weight polybutylene terephthalate/polyester blends with phosphorus compounds

DATE-ISSUED: December 31, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Walsh; Eileen B.	Evansville	IN		

US-CL-CURRENT: 524/152; 524/147, 524/151, 524/414, 524/417



Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 26. Document ID: US 5367011 A

L19: Entry 26 of 26

File: USPT

Nov 22, 1994

US-PAT-NO: 5367011

DOCUMENT-IDENTIFIER: US 5367011 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Stabilization of low molecular weight of polybutylene terephthalate/polyester blends with phosphorus compounds

DATE-ISSUED: November 22, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Walsh; Eileen B.	Evansville	IN		

US-CL-CURRENT: 524/417; 524/139, 524/140, 524/143, 524/145, 524/151, 524/604

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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L18 and EPDM		26			

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## Refine Search

### Search Results -

Terms	Documents
L13 and (high near molecular near weight near polybutene)	1

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L17

Refine Search

Recall Text

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### Search History

DATE: Sunday, October 29, 2006   
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 [Printable Copy](#)   
 [Create Case](#)

<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
side by side			
<i>DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L17</u>	L13 and (high near molecular near weight near polybutene)	1	<u>L17</u>
<u>L16</u>	L13 and (high near molecular near weight near polybutylene)	17	<u>L16</u>
<u>L15</u>	L13 and (semi-solid near polybutylene)	0	<u>L15</u>
<u>L14</u>	L13 and (solid near polybutylene)	0	<u>L14</u>
<u>L13</u>	L4 and EPDM	1719	<u>L13</u>
<u>L12</u>	4601935.pn.	2	<u>L12</u>
<u>L11</u>	L10 and L9	49	<u>L11</u>
<u>L10</u>	L8 and 524/\$.ccls.	153	<u>L10</u>
<u>L9</u>	L8 and 525/\$.ccls.	202	<u>L9</u>
<u>L8</u>	L7 and (bonding or damping or (vibration near absorb\$2) or vibration)	728	<u>L8</u>
<u>L7</u>	L6 and cur\$3	1507	<u>L7</u>
<u>L6</u>	L5 and (isobutylene or butene)	2593	<u>L6</u>
	L4 and ((ethylene-alpha-olefin) or (ethylene near alpha-olefin near rubber) or		

<u>L5</u>	(EPDM) or EPM or (ethylene near propylene near copolymer) or (ethylene near butene near copolymer) or (ethylene near propylene near elastomer))	3789	<u>L5</u>
<u>L4</u>	L3 and ((high near molecular near weight) or (very near viscous) or (high near viscosity) or (high near viscosity near molecular near weight))	12174	<u>L4</u>
<u>L3</u>	L2 and (solid or (semi-solid) or (solid near rubber))	36114	<u>L3</u>
<u>L2</u>	polybutylene or polyisobutylene or polybutene or (polyisobutylene near isoprene)	81497	<u>L2</u>
<u>L1</u>	7078104.pn.	2	<u>L1</u>

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## Hit List

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**Search Results - Record(s) 1 through 1 of 1 returned.**

☐ 1. Document ID: US 4671996 A

L17: Entry 1 of 1

File: USPT

Jun 9, 1987

US-PAT-NO: 4671996

DOCUMENT-IDENTIFIER: US 4671996 A

TITLE: Adhesive package

DATE-ISSUED: June 9, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cantor; Stephen E.	Cheshire	CT		

US-CL-CURRENT: [428/343](#); [206/219](#), [428/349](#), [428/355R](#), [428/519](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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Terms	Documents
L13 and (high near molecular near weight near polybutene)	1

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### Search Results -

Terms	Documents
L13 and (high near molecular near weight near polybutylene)	17

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 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

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DATE: Sunday, October 29, 2006

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 Name Query  
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Hit  
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 Set  
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 result  
 set

DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

<a href="#">L16</a>	L13 and (high near molecular near weight near polybutylene)	17	<a href="#">L16</a>
<a href="#">L15</a>	L13 and (semi-solid near polybutylene)	0	<a href="#">L15</a>
<a href="#">L14</a>	L13 and (solid near polybutylene)	0	<a href="#">L14</a>
<a href="#">L13</a>	L4 and EPDM	1719	<a href="#">L13</a>
<a href="#">L12</a>	4601935.pn.	2	<a href="#">L12</a>
<a href="#">L11</a>	L10 and L9	49	<a href="#">L11</a>
<a href="#">L10</a>	L8 and 524/\$.ccls.	153	<a href="#">L10</a>
<a href="#">L9</a>	L8 and 525/\$.ccls.	202	<a href="#">L9</a>
<a href="#">L8</a>	L7 and (bonding or damping or (vibration near absorb\$2) or vibration)	728	<a href="#">L8</a>
<a href="#">L7</a>	L6 and cur\$3	1507	<a href="#">L7</a>
<a href="#">L6</a>	L5 and (isobutylene or butene)	2593	<a href="#">L6</a>
<a href="#">L5</a>	L4 and ((ethylene-alpha-olefin) or (ethylene near alpha-olefin near rubber) or (EPDM) or EPM or (ethylene near propylene near copolymer) or (ethylene	3789	<a href="#">L5</a>

	near butene near copolymer) or (ethylene near propylene near elastomer))		
<u>L4</u>	L3 and ((high near molecular near weight) or (very near viscous) or (high near viscosity) or (high near viscosity near molecular near weight))	12174	<u>L4</u>
<u>L3</u>	L2 and (solid or (semi-solid) or (solid near rubber))	36114	<u>L3</u>
<u>L2</u>	polybutylene or polyisobutylene or polybutene or (polyisobutylene near isoprene)	81497	<u>L2</u>
<u>L1</u>	7078104.pn.	2	<u>L1</u>

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**Search Results** - Record(s) 1 through 17 of 17 returned.

☐ 1. Document ID: US 20060230476 A1

L16: Entry 1 of 17

File: PGPB

Oct 12, 2006

PGPUB-DOCUMENT-NUMBER: 20060230476

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060230476 A1

TITLE: Polymeric/ceramic composite materials for use in medical devices

PUBLICATION-DATE: October 12, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atanasoska; Liliana	Edina	MN	US
Schewe; Scott	Eden Prairie	MN	US
Warner; Robert	Woodbury	MN	US

US-CL-CURRENT: [604/93.01](#), [977/933](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Drawn De
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☐ 2. Document ID: US 20060204545 A1

L16: Entry 2 of 17

File: PGPB

Sep 14, 2006

PGPUB-DOCUMENT-NUMBER: 20060204545

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060204545 A1

TITLE: Drug release regions for medical devices, which include polycyclic-structure-containing polymers

PUBLICATION-DATE: September 14, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ranade; Shrirang V.	Arlington	MA	US
Helmus; Michael N.	Worcester	MA	US
Richard; Robert E.	Wrentham	MA	US

US-CL-CURRENT: [424/425](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 3. Document ID: US 20060171981 A1

L16: Entry 3 of 17

File: PGPB

Aug 3, 2006

PGPUB-DOCUMENT-NUMBER: 20060171981

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060171981 A1

TITLE: Medical devices having polymeric regions with copolymers containing hydrocarbon and heteroatom-containing monomeric species

PUBLICATION-DATE: August 3, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Richard; Robert E.	Wrentham	MA	US
Schwarz; Marlene C.	Auburndale	MA	US
Faust; Rudolf	Lexington	MA	US

US-CL-CURRENT: 424/422; 623/1.11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 4. Document ID: US 20060171980 A1

L16: Entry 4 of 17

File: PGPB

Aug 3, 2006

PGPUB-DOCUMENT-NUMBER: 20060171980

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060171980 A1

TITLE: Implantable or insertable medical devices having optimal surface energy

PUBLICATION-DATE: August 3, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus; Michael N.	Worcester	MA	US
Valint; Paul	Pittsford	NY	US
Ranade; Shrirang V.	Arlington	MA	US

US-CL-CURRENT: 424/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 5. Document ID: US 20060129215 A1

L16: Entry 5 of 17

File: PGPB

Jun 15, 2006

PGPUB-DOCUMENT-NUMBER: 20060129215

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060129215 A1

TITLE: Medical devices having nanostructured regions for controlled tissue biocompatibility and drug delivery

PUBLICATION-DATE: June 15, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus; Michael N.	Worcester	MA	US
Xu; Yixin	Newton	MA	US
Ranade; Shrirang V.	Arlington	MA	US

US-CL-CURRENT: 607/115

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw D
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☐ 6. Document ID: US 20060127443 A1

L16: Entry 6 of 17

File: PGPB

Jun 15, 2006

PGPUB-DOCUMENT-NUMBER: 20060127443

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060127443 A1

TITLE: Medical devices having vapor deposited nanoporous coatings for controlled therapeutic agent delivery

PUBLICATION-DATE: June 15, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus; Michael N.	Worcester	MA	US

US-CL-CURRENT: 424/423; 623/1.11, 977/931

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw D
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☐ 7. Document ID: US 20060127442 A1

L16: Entry 7 of 17

File: PGPB

Jun 15, 2006

PGPUB-DOCUMENT-NUMBER: 20060127442

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060127442 A1

TITLE: Use of supercritical fluids to incorporate biologically active agents into nanoporous medical articles

PUBLICATION-DATE: June 15, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus; Michael N.	Worcester	MA	US

US-CL-CURRENT: 424/423; 427/2.26, 623/1.11, 977/931

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw De
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☐ 8. Document ID: US 20060121076 A1

L16: Entry 8 of 17

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060121076

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060121076 A1

TITLE: Orienting polymer domains for controlled drug delivery

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ranade; Shrirang V.	Arlington	MA	US
Richard; Robert E.	Wrentham	MA	US
Dao; Kinh-Luan (Lenny) D.	Randolph	MA	US
Gido; Samuel P.	Hadley	MA	US
Isaacs-Sodeye; Akinbode Idowu	South Hadley	MA	US

US-CL-CURRENT: 424/422; 427/2.26, 604/500

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw De
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☐ 9. Document ID: US 20060034931 A1

L16: Entry 9 of 17

File: PGPB

Feb 16, 2006

PGPUB-DOCUMENT-NUMBER: 20060034931

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060034931 A1

TITLE: Solvent-assisted loading of therapeutic agents

PUBLICATION-DATE: February 16, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hansen; James G.	Coon Rapids	MN	US

US-CL-CURRENT: 424/486

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 10. Document ID: US 20060013849 A1

L16: Entry 10 of 17

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060013849

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060013849 A1

TITLE: Medical devices containing radiation resistant block copolymer

PUBLICATION-DATE: January 19, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Strickler; Frederick H.	Natick	MA	US
Richard; Robert E.	Wrentham	MA	US

US-CL-CURRENT: 424/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 11. Document ID: US 20050240098 A1

L16: Entry 11 of 17

File: PGPB

Oct 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050240098

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050240098 A1

TITLE: Magnetic resonance imaging of a medical device and proximate body tissue

PUBLICATION-DATE: October 27, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Zhong, Sheng-Ping	Shrewsbury	MA	US
Helmus, Michael N.	Worcester	MA	US
Smith, Scott R.	Chaska	MN	US
Hammer, Bruce E.	Minnetonka	MN	US

US-CL-CURRENT: 600/410; 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 12. Document ID: US 20050239508 A1

L16: Entry 12 of 17

File: PGPB

Oct 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050239508

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050239508 A1

TITLE: Medical articles having therapeutic-agent-containing regions formed from  
coalesced polymer particles

PUBLICATION-DATE: October 27, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schwarz, Marlene C.	Auburndale	MA	US
Richard, Robert E.	Wrentham	MA	US
Zhong, Sheng-Ping	Shrewsbury	MA	US

US-CL-CURRENT: 455/562.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 13. Document ID: US 20050238684 A1

L16: Entry 13 of 17

File: PGPB

Oct 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050238684

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050238684 A1

TITLE: Implantable or insertable medical articles having covalently modified,  
biocompatible surfaces

PUBLICATION-DATE: October 27, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus, Michael N.	Worcester	MA	US
Ranade, Shrirang V.	Arlington	MA	US

US-CL-CURRENT: 424/423

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 14. Document ID: US 20050228433 A1

L16: Entry 14 of 17

File: PGPB

Oct 13, 2005

PGPUB-DOCUMENT-NUMBER: 20050228433  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050228433 A1

TITLE: In situ implant and method of forming same

PUBLICATION-DATE: October 13, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bucay-Couto, Weenna	Burlington	MA	US
Liu, Cliff	Randolph	MA	US

US-CL-CURRENT: 606/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 15. Document ID: US 20050220853 A1

L16: Entry 15 of 17

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050220853  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050220853 A1

TITLE: Controlled delivery of therapeutic agents from medical articles

PUBLICATION-DATE: October 6, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dao, Kinh-Luan (Lenny)	Randolph	MA	US
Panos, Anastasia	Worcester	MA	US
Chin, Yem	Burlington	MA	US
Zhong, Sheng-Ping (Samuel)	Shrewsbury	MA	US

US-CL-CURRENT: 424/449

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 16. Document ID: US 20050187146 A1

L16: Entry 16 of 17

File: PGPB

Aug 25, 2005

PGPUB-DOCUMENT-NUMBER: 20050187146  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050187146 A1

TITLE: Biomaterials for enhanced healing

PUBLICATION-DATE: August 25, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus, Michael N.	Worcester	MA	US
Richard, Robert	Wrentham	MA	US
Dixon, Melissa	Milford	MA	US

US-CL-CURRENT: 514/8; 424/78.27, 525/54.2, 530/395

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 17. Document ID: US 20050181014 A1

L16: Entry 17 of 17

File: PGPB

Aug 18, 2005

PGPUB-DOCUMENT-NUMBER: 20050181014

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050181014 A1

TITLE: Polymer-filler composites for controlled delivery of therapeutic agents from medical articles

PUBLICATION-DATE: August 18, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Richard, Robert E.	Wrentham	MA	US

US-CL-CURRENT: 424/426

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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L13 and (high near molecular near weight near polybutylene)

17

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